JVC

Emerald Series
(EMxxNF5/EMxxRF5)

QUICK START GUIDE

*All Images shown in QSG are for illustration purpose only.

IMPORTANT SAFETY INFORMATION

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage with the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

- Read and follow all these instructions.
- Heed all warnings.
- Do not use this device near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other heat-generation devices.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the device.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Apparatus should not be exposed to dripping or splashing, and objects filled with liquids, such as vases, should not be placed on the apparatus.
- An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.
- Do not overload wall outlets and extension cords, as this can result in a risk or fire or electric shock.
- Do not push objects through any openings in this unit as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.
- If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding practices.
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
- When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet.
- Sudden high volume sound may cause hearing or speaker damage. When you use headphones (if the unit is equipped with a headphone jack), keep the volume at a moderate level.

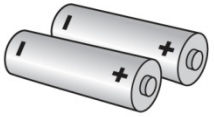
CHECK MATERIALS IN PACKAGE

Check if the following items are included in your package.

LED TV

Remote Control

Batteries



Quick Start Guide

Power Cord

Roku® Streaming Stick™
(Roku Ready® Version)
(Included only in EMxx**RF5** models)

DOWNLOAD FULL VERSION USER MANUAL

http://jvc-tv.com

REMOTE CONTROL (EMxxNF5 Models)

IR Transmitter

TV POWER button

LED indicator

Playback Controls
Control USB multimedia and HDMI-CEC/MHL devices

BACK button
Go back to previous selection

MEDIA button
Access USB Multimedia

INFO button

INPUT button
Select Input source

MENU button

AUDIO button
Enter Audio Only Mode

Directional buttons

OK button

VOLUME Controls

CHANNEL Controls

MUTE button

Number Pad
To directly key in channels.
Use "-" for sub-channel.
Example: 2-1 or 18-7

Last button
Return to previous channel

REMOTE CONTROL (EMxxRF5 Models)

IR Transmitter

TV POWER button

LED indicator

****Playback Controls**
Control USB multimedia and HDMI-CEC/MHL devices

← button**
Go back to previous selection

ROKU Home button**
Enter ROKU Home Page

INFO* button**
Enter ROKU Special Options

INPUT button
Select Input source

MENU button

AUDIO button
Enter Audio Only Mode

Directional buttons

OK button

VOLUME Controls

CHANNEL Controls

MUTE button

Number Pad
To directly key in channels.
Use "-" for sub-channel.
Example: 2-1 or 18-7

Last button**
Return to previous channel

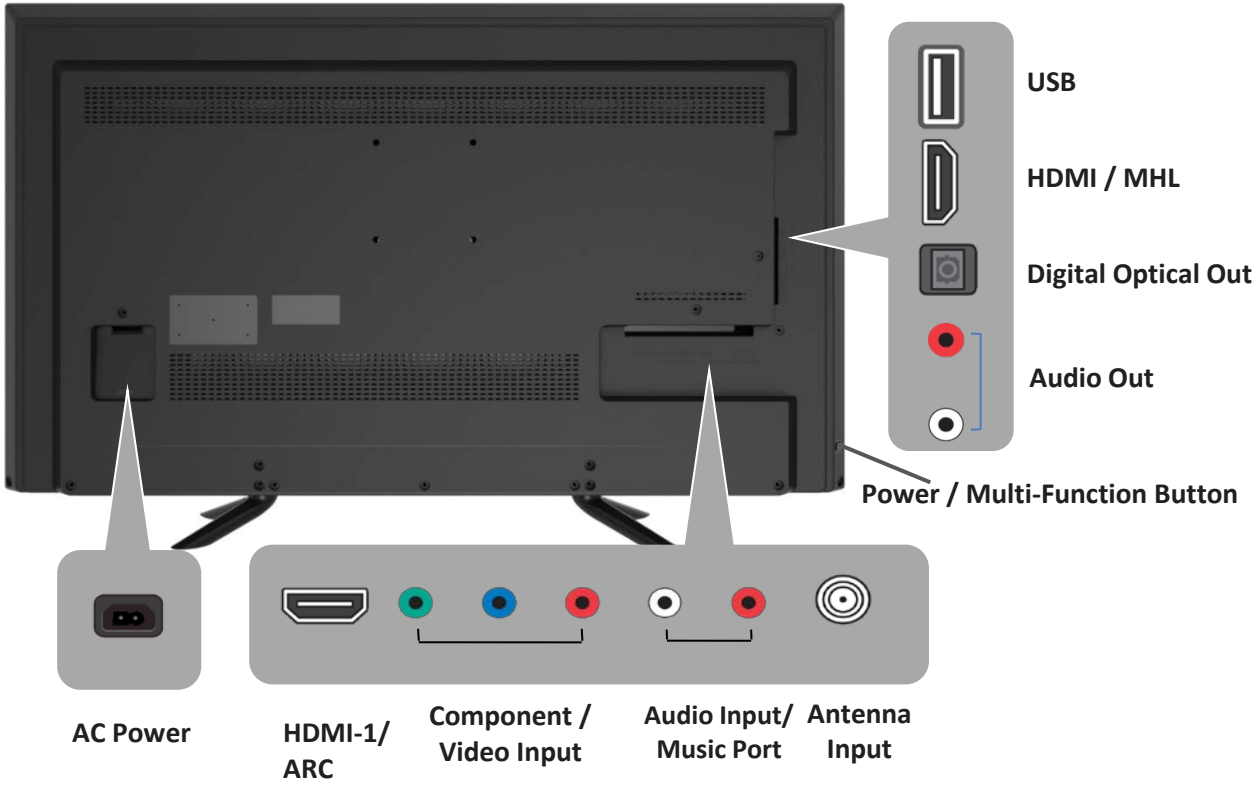
****Compatible with ROKU® Streaming Stick™**

FRONT VIEW

Power Indicator & Remote Sensor

REAR VIEW

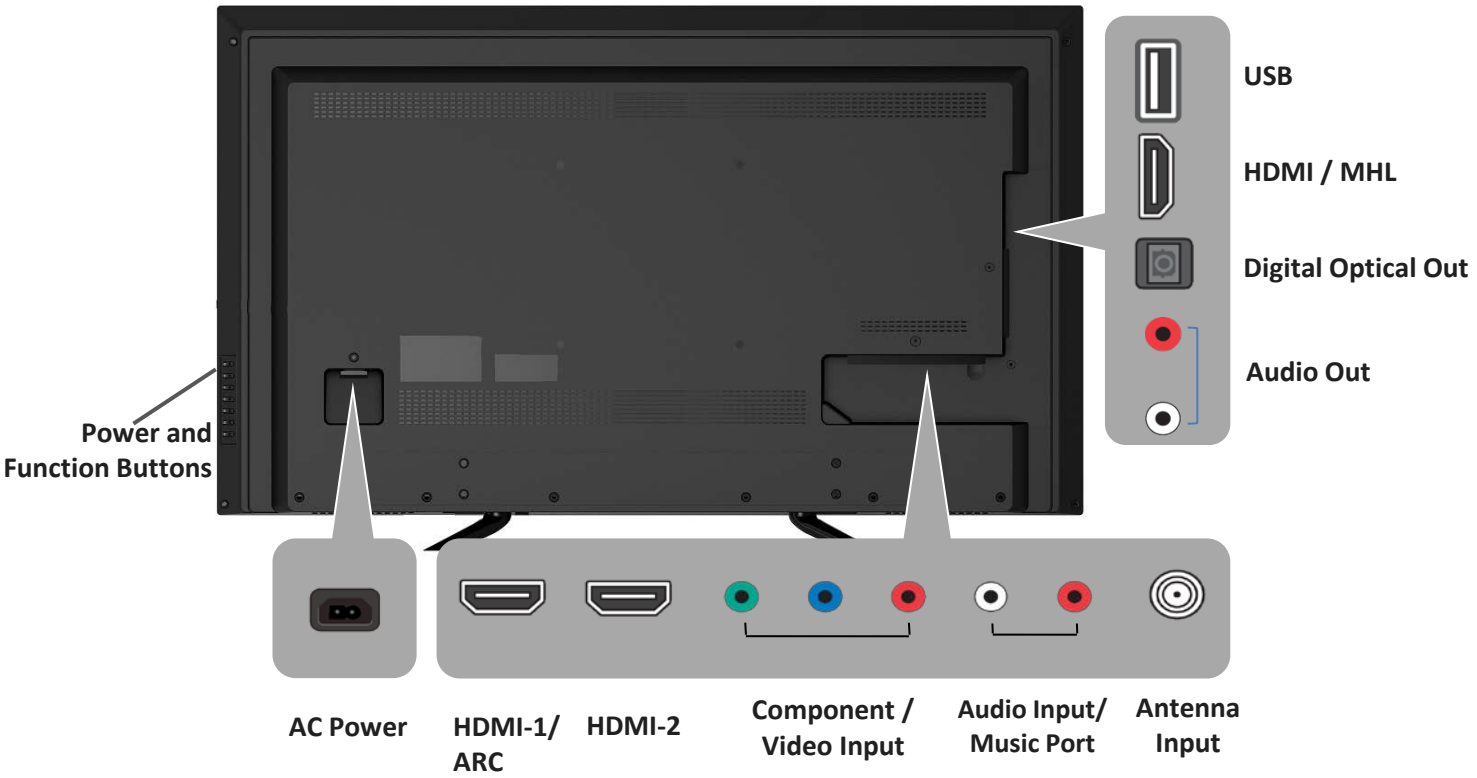
EM40NF5
EM40RF5



Power / Multi-Function Button Operation:
- Press the button to show Quick Control Menu and switch between options
- Press and hold the button to select highlighted option
- To power off TV, press and hold the button while Quick Control Menu is not on screen

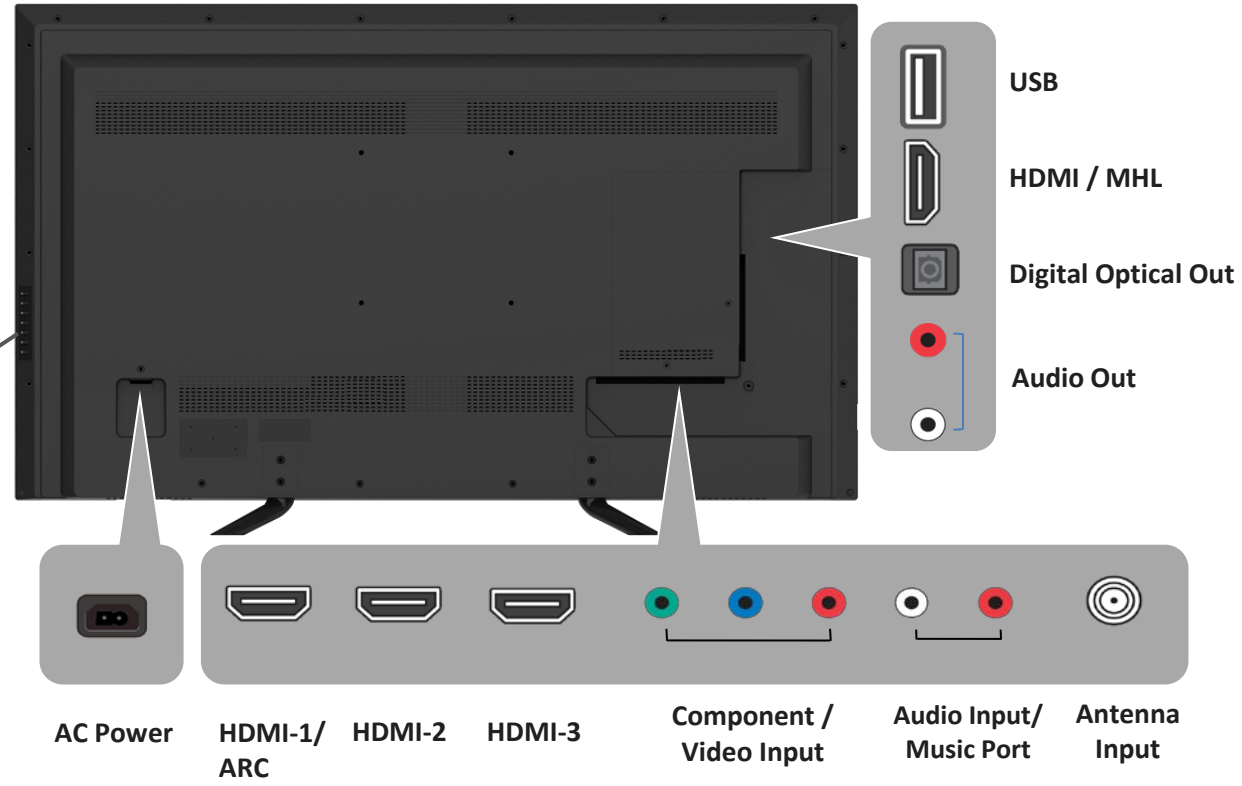
REAR VIEW

EM43NF5
EM43RF5

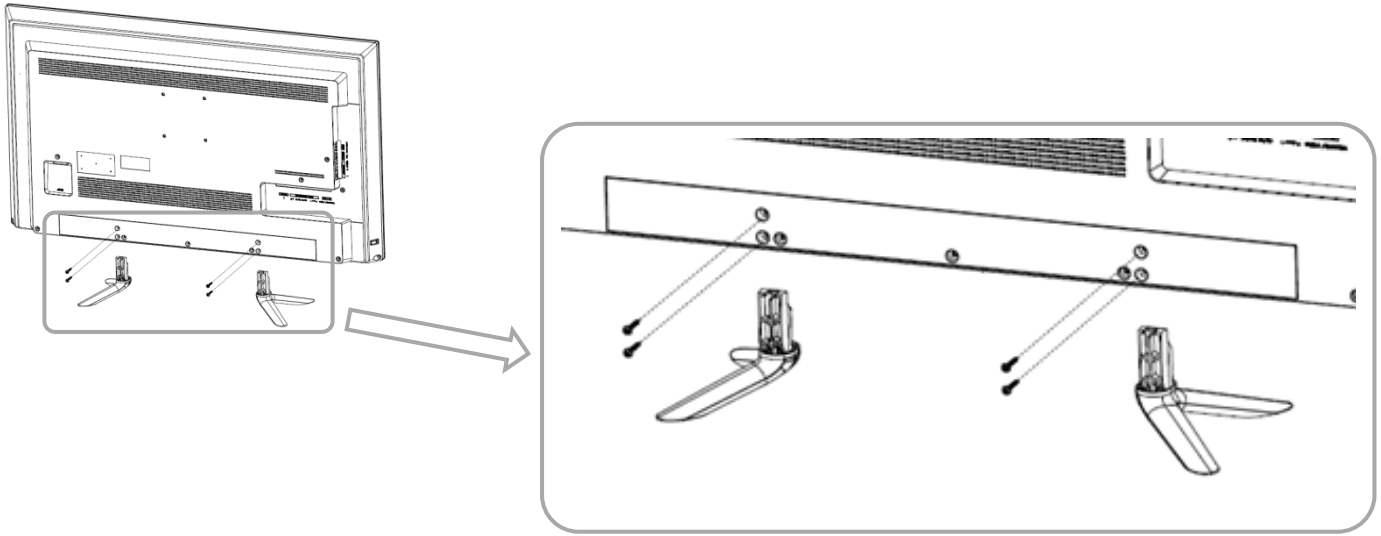


REAR VIEW

EM50NF5
EM50RF5
EM55NF5
EM55RF5



INSTALLING BASE AND BATTERIES



1. Carefully place TV face down on a flat and clean surface. It is recommended to place the TV cover or protection sheet between the TV and the flat surface
2. Attach base to TV unit and fasten with screws provided

INSTALLING BASE AND BATTERIES

1. Push the tab, then lift to open the cover.

2. Insert the batteries, making sure the [+] and [-] polarities are correct.

3. Close battery cover.

Be sure to follow correct polarity.

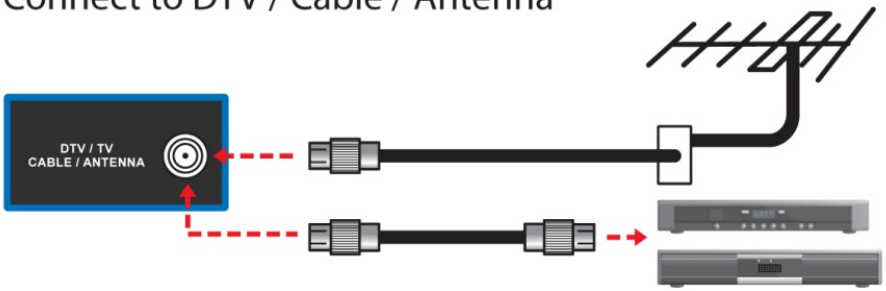
Do NOT combine a used battery with a new one

Do NOT combine rechargeable battery with a non-rechargeable battery (e.g. Alkaline or Carbon-zinc)

CONNECTING TV AND DEVICES

Connect to Power

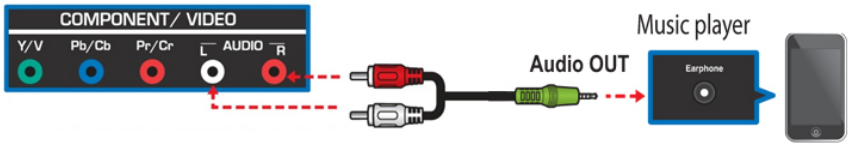
Connect to DTV / Cable / Antenna



Antenna Cable is not included

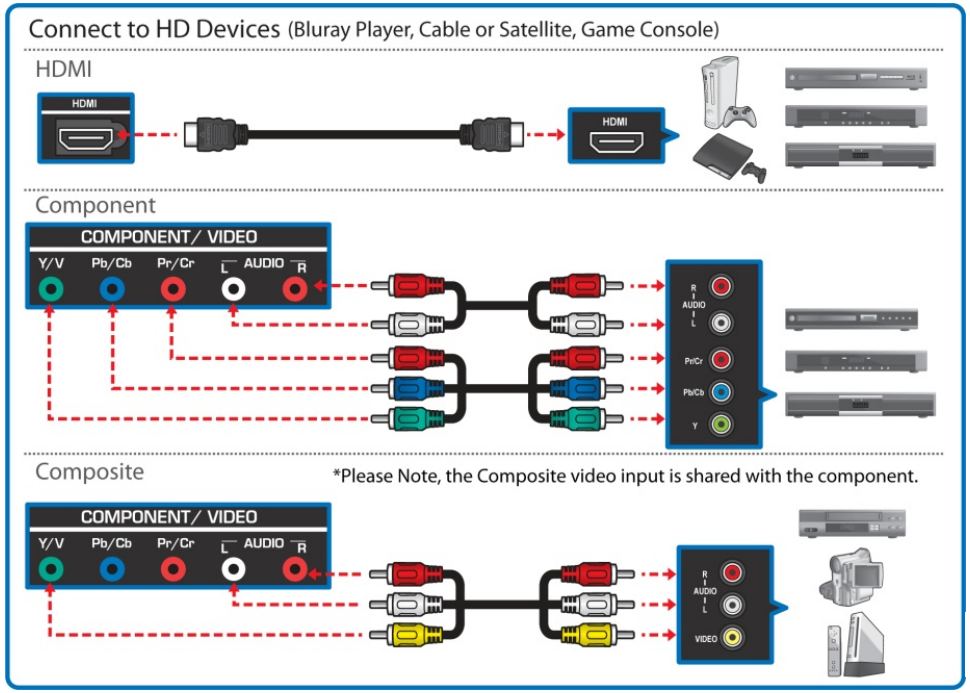
Connect to External Music Players

Music Port

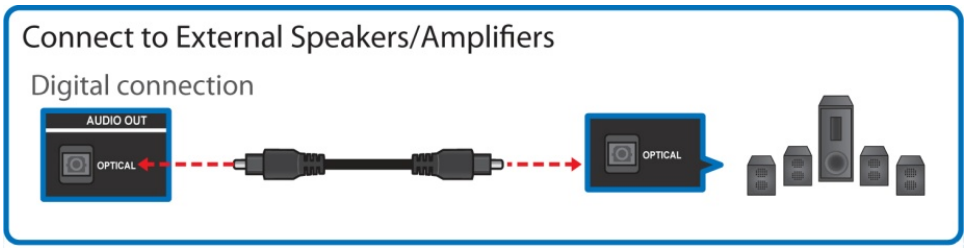


Audio cable is not included

CONNECTING TV AND DEVICES



HDMI, AV Cables are not included



Optical cable is not included.

For Dolby Digital 5.1 support Select option in the Menu /Audio setting.

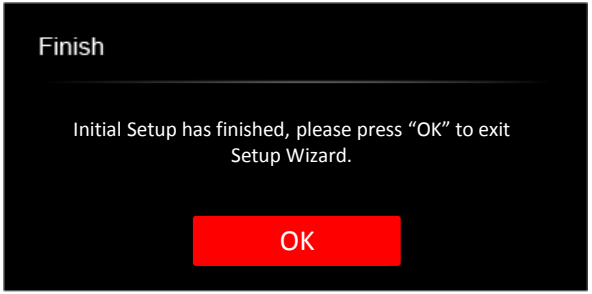
CONNECTING TV AND DEVICES

USB drive is not included

Only Pictures in .JPG format are supported

FIRST TIME SETUP

The **Setup Wizard** appears when you turn on the TV for the first time.

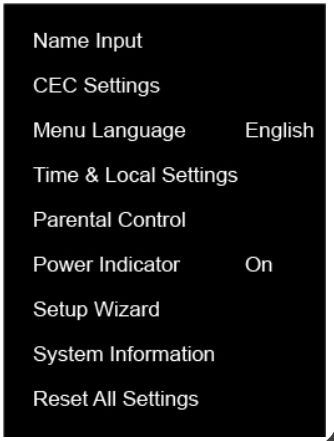


Follow the TV on-screen instruction and use the remote to choose:

- **Menu language**
- **TV mode**
- **Time Zone**
- **Daylight Saving**
- **Channel Scan**

(Make sure TV remote batteries are installed before operating)

You can also run the **Setup Wizard** at any time, by choosing **MENU > SETUP > SETUP WIZARD**



TROUBLESHOOTING

Problem	Solution
No Power	• Make sure the power cord is plugged in. • The power is off; press Power button to turn on the TV. • Try another outlet. • Unplug the unit for an hour, and then plug it back in.
Poor or No Sound	• Press the VOL Up button on the remote control or adjust volume using the Power/Multi-Function button on TV (see page 6 for details). • Press MUTE button on the remote control to ensure mute is not on. • The channel or cable TV broadcast is experiencing problems. Tune to another channel. • Check the TV audio settings and possible sources of interference.
Poor or No Picture	• The channel or cable TV is experiencing problems. Tune to another channel. • Make sure that channels are set into memory. • Check the antenna or cable TV connections. • Check for possible sources of interference.
Poor Reception on Some Channels	• The channel or cable TV broadcast is experiencing problems. Tune to another channel. • Make sure that channels are set into memory. • The network signal is weak. Adjust the antenna to receive a better reception • Check for possible sources of interference.
The Remote Control does not work	• Batteries may be weak, dead, or inserted incorrectly. • Point the remote control directly at the IR sensor on the TV with an angle of 35 degrees. • Remove any obstacles between the remote control and the TV. • Remote control is out of range. Move closer to the TV.
TV Shuts Off	• Sleep timer is set. • Power is interrupted.
No CATV Reception	• Check all cable TV connections. • Set the TV Mode in Channel menu.
Closed Caption is not activated	• The channel/program is not a closed caption broadcast. Try another channel. • Enable Closed Caption in the Menu.

LIMITED WARRANTY

On Parts and Labor

This Limited Warranty covers units that are purchased as new and in the United States Only. This Product is manufactured, distributed, and warranted by AmTRAN Video Corporation (hereinafter known as "Warrantor") under brand license by JVC KENWOOD Corporation. The Warrantor provides a warranty to the original purchaser of a new Product against defects in materials and workmanship for a period of one (1) year of non-commercial usage and ninety (90) days of commercial use. If a Product covered by this warranty is determined to be defective within the warranty period, the Warrantor will either repair or replace the Product at its sole option and discretion.

To obtain warranty service, contact Technical Support:

Visit the Web Site: http://**jvc-tv.com/support**

Or call our Customer Support and Service Center **1-855-868-1928**

PRE-AUTHORIZATION MUST BE OBTAINED BEFORE SENDING ANY PRODUCT TO A DESIGNATED SERVICE CENTER.

Proof of purchase in the form of a purchase receipt or copy thereof is required to show that a Product is within the warranty period.

Parts and Labor

There will be no charge for parts or labor during the warranty period. Replacement parts and Products may be new or recertified at the Warrantor's option and sole discretion. Replacement parts and Products are warranted for the remaining portion of the original warranty or for ninety (90) days from warranty service or replacement, whichever is longer.

Types of Service

Defective Products must be sent to the designated service center to obtain warranty service. The Warrantor is not responsible for the transportation costs to the service center, but will cover the costs for return shipping to the customer.

PRE-AUTHORIZATION IS REQUIRED BEFORE SENDING ANY PRODUCT TO A DESIGNATED SERVICE CENTER FOR WARRANTY SERVICE.

Product returned to designated service centers must either utilize the original carton box and shipping material or packaging that affords an equal degree of protection. Technical Support will provide instructions for packing and shipping the Product to the designated service center.

Limitations and Exclusions

The Warrantor's one-year limited warranty only covers defects in materials and workmanship. This warranty does not cover product issues caused by any other reason including, but not limited to, cosmetic damage, normal wear and tear, improper operation, improper voltage supply or power surges, signal issues, damages from shipping, acts of God, any type of customer misuse, modifications or adjustments, as well as installation and setup issues or any repairs attempted by anyone other than by a authorized service center. Products with unreadable or removed serial numbers, or requiring routine maintenance are not covered. This one-year limited warranty does not cover Products that are sold "As-Is", "Open Box", "FACTORY RECERTIFIED", or by a non-authorized reseller.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE LISTED OR DESCRIBED ABOVE. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE PERIOD OF TIME SET FORTH ABOVE. THE WARRANTOR'S TOTAL LIABILITY FOR ANY AND ALL LOSSES AND DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER INCLUDING WARRANTOR'S NEGLIGENCE, ALLEGED DAMAGE, OR DEFECTIVE GOODS, WHETHER SUCH DEFECTS ARE DISCOVERABLE OR LATENT, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT. THE WARRANTOR SHALL NOT BE RESPONSIBLE FOR LOSS OF USE, LOSS OF INFORMATION OR DATA, COMMERCIAL LOSS, LOST REVENUE OR LOST PROFITS, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE. THIS WARRANTY IS SUBJECT TO CHANGE WITHOUT NOTICE. CHECK TV.JVC.COM FOR THE MOST CURRENT VERSION.

PERSONAL DATA

If your Product is capable of storing personal data and other information, all contents and information will be deleted in the course of some in-home, and all ship-in, warranty service. If this occurs, your Product will be restored to you configured as originally purchased. You will be responsible for restoring all applicable data and passwords. Recovery and reinstallation of User data is not covered under this Limited Warranty.

LIMITED WARRANTY

In order to protect your personal information, we recommend that you always clear all personal information from the Product before it is serviced, regardless of the servicer.

Important Open Source Software Notice

Some JVC device may contain free software which is based on the license granted under the GNU General Public License and Lesser General Public License (hereinafter "GPL/LGPL") that are subject to the GPL2.0/LGPL2.1 You may use, modify, or distribute only if you agree to all of the terms and conditions of the GPL/LGPL. For more details on the list of JVC devices with open source software, please visit http://jvc-tv.com/support.

Please note that any software component developed or created independently by AmTRAN Video Corporation shall not be subject to "GPL/LGPL" requirement for provision of the source code. Users are urged to read the details for the relevant license carefully before using the software component covered by "GPL/LGPL."

You can obtain a copy of the GPL/LGPL license from http://www.gnu.org/licenses/gpl and http://www.gnu.org/licenses/lgpl. Please note that we are unable to answer any inquiry relating to the contents, etc of the source code.

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THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT, IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Third Party Application Notice

You may encounter third-party applications (including links to websites, widgets, software or other software utilities ("Applications") that interact with the Product. Such Applications are owned and operated by third parties that are not related to or sponsored by us. Use of an Application through the Product is at your own option and risk. We do not endorse any included third-party Applications or third-party products or services. Your use of included Applications is subject to the terms of use and privacy policy of the Application provider.

REGULATORY STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

Responsible Party: AmTRAN Video Corporation

Address: 9 Goddard, Irvine, CA 92618, USA

Telephone No; 949-336 6633

Required Marking Location

The rating sheet and the safety caution are on the rear of the unit.

LIMITED WARRANTY

Roku® Streaming Stick™ (Roku Ready® Version)

Important Product Information

The License Agreement

The Roku and third-party software license terms can be found at: www.roku.com/license. Use of the Roku Streaming Stick ("Streaming Stick") constitutes acceptance of as well as agreement to those license terms.

One (1) Year Limited Hardware Warranty

Subject to the additional terms and conditions set forth below, Roku provides this

Limited Warranty:

• Only to the person or entity that originally purchased the Streaming Stick from Roku or from one of its authorized re-sellers or distributors; and

• Only for Streaming Sticks purchased and delivered to the end user within the United States and Canada.

Limited Warranty

Roku warrants the Streaming Stick hardware against defects in materials and workmanship under normal use for a period of one (1) year from the date of purchase **("Warranty Period")**. If Roku determines that the Streaming Stick's hardware is defective, Roku will either repair the unit or replace the unit with either a new or rebuilt Streaming Stick, at its option. If the Warranty Period has expired or is otherwise not applicable **(see Scope and Limitation on Warranty below)**, we will return the Streaming Stick to you. More information about this warranty can be found at www.roku.com/support. THE FOREGOING SETS FORTH ROKU'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY IN THE EVENT OF ANY BREACH OF THIS LIMITED WARRANTY.

Return and Warranty Service Process

Please access and review the online help resources at www.roku.com/ support before seeking warranty service. To return or obtain warranty service for a Streaming Stick, you must first obtain a Return Merchandise Authorization (RMA) number from a Customer Support Representative (CSR) at Roku. Customer Support contact information can be found by visiting www.roku.com/support. RMA numbers expire thirty days from issuance. Roku may attempt to troubleshoot a warranty-related problem prior to issuing a RMA number. Please be prepared to provide additional information upon request. Once a RMA number is obtained, you must ship your Streaming Stick, freight prepaid, together with proof of purchase and all accessories, in either the original packaging or packaging affording an equal degree of protection, to the Roku authorized distribution facility identified by the CSR. Failure to return any of the accessories could result in a delay and/or result in an invoice to you or credit to Roku for the missing accessories.

Important: When emailing for a RMA number, please provide the following information with your request: (a)model number, (b) serial number, (c)problem description, (d) software version (located in the System Configuration menu), (e) date of purchase, (f) place of purchase (reseller or online place of purchase), and (g) return shipping address (P.O. boxes are not accepted).

Scope of and Limitation on Warranty

The warranty on the Streaming Stick is limited to the repair or replacement of defective units as described in the **Limited Warranty** section above. This warranty does not cover customer training or education, installation, set up adjustments, or signal reception problems. This warranty also does not cover any issue related to the service provided by your Service Provider, including but not limited to service disruption, changes in service terms, changes in offerings, changes in format, or technical problems. This warranty does not cover damage due to acts of God, accident, misuse, abuse, negligence, commercial use or modification of, or to any part of, your Streaming Stick. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply or attempted repair by anyone other than a facility authorized by Roku to service your Streaming Stick. This warranty does not cover consumables (such as fuses and batteries).

Legal Notices

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

LIMITED WARRANTY

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware limited to channels 1 through 11.

Wireless Radio Use:

This device is restricted to indoor use when operating in the 5.15 to 5.25 GHz frequency band.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

Note to US model owner:

To comply with US FCC regulation, the country selection function has been completely removed from all US models. The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Industry Canada statement

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

French translation:

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositive doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Safety Precautions

The Streaming Stick has been designed with the highest concern for safety. However, any electrical device, if used improperly, has the potential for causing fire, electrical shock or personal injury. To help ensure accident-free operation, follow these guidelines:

• Observe all warnings, precautions and instructions.

• Stop use, unplug the device that the Streaming Stick is inserted into from the electrical outlet and disconnect any other cables immediately if the Streaming Stick or the device functions in an abnormal manner, produces unusual sounds or smells or becomes too hot to touch.

• For more information on product safety and troubleshooting, please go to www.roku.com/support.

Use and Handling

• When playing video games, use in a well-lit area and stand or sit as far away from the screen as possible.

• Take a 10-15 minute break every hour if playing video games and avoid prolonged use of the remote.

• Stop playing video games if you begin to feel tired or if you experience discomfort or pain in your hands or arms while operating the remote if the condition persists, consult a doctor.

• If you experience any of the following health problems, discontinue use of the Streaming Stick immediately:

— Dizziness, nausea, fatigue or symptoms similar to motion sickness.

— Discomfort or pain in a part of the body, such as eyes, ears, hands, or arms. If symptoms persist, consult your physician.

• Keep the Streaming Stick and any accessories, including the remote, out of the reach of small children.

• Do not touch the Streaming Stick during an electrical storm.

• Do not allow liquid, small particles or other foreign objects to get into the Streaming Stick or accessories.

• Do not expose the Streaming Stick to smoke or steam.

• Do not expose the Streaming Stick or accessories to high, temperatures, high humidity or direct sunlight.

www.roku.com

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TV SERIAL NUMBER

Copy TV serial number here for quick future reference

Serial Number:

Model Number:

Serial and Model numbers can be found on the safety label located on the back of the TV.

EXAMPLE

JVC
Model No.:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2)This device must accept any interference received, including interference that may cause undesired operation.
Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
CAN ICES-3 (B)/NMB-3(B)
This product is manufactured, distributed, serviced, and warranted by AmTRAN Video Corporation under license by JVC KENWOOD Corporation.
Serial No.:
Serial No.:
F
MADE IN CHINA
HDMI
LR 106160

We Are Here To Help!

For help with Roku® Streaming Stick™ (Roku Ready® Version):
Call Roku customer support: 1-888-600-7658 (ROKU)
www.roku.com/support

Call our highly trained team for television support:

1 - 855 - 868 - 1928

We can help you with

- Damaged Package
- Missing Parts
- Technical Support

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